

# / Expro Excellence

## Fluids

Fluid Sampling & Analysis

Expro's adaptive and flexible approach to fluid sampling and onsite analysis results in 100% performance score over eight wells by Chevron, providing them with the best fluids representation to date for the Gorgon field



### Objectives

- Chevron's reservoir engineers requested specialist services for their Gorgon flow back campaign (eight wells)
- The challenge for each flow back was to acquire quantification and composition of condensed water and reliable measurement of mercury content in the produced gas

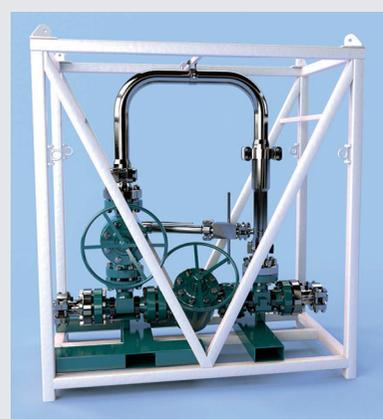
### Expro Excellence

- Technology used: Expro Petrotech IsoSplit® wellhead sampling; Expro Petrotech Multi-Ion Analyser; Expro Petrotech Mercury in Gas Analysis
- Expro Petrotech IsoSplit wellhead sampling is a unique solution for condensed water measurement – its principle use is for accurate condensate/gas ratio (CGR) measurement and the collection of high quality equilibrium separator samples, but water/gas ratio (WGR) can also be quantified during the flashing of the IsoSplit process unit
- Gave the best insight to condensed water levels, especially when incorporated with the salinity and multi-ion analysis results

- Fast report turnaround – “detail and quality of the reports were outstanding”
- 100% performance score over eight wells

### Value to client

- Without reliable data, production problems could occur once feeds come online – smart planning by harvesting quality data in the lead up to the production phase will mitigate against unforeseen process costs in the future
- Chevron commented that the onsite mercury analysis provided the best representation to date of the field mercury in gas levels
- Engineering team had a much better understanding of individual well characteristics and overall field performance
- Excellent communication with the onsite Fluids team, coupled with initiative and willingness to be adaptive led to progressive improvements in the sampling programme



**IsoSplit** wellhead sampling gave the best insight yet into condensed water levels, particularly once salinity and Multi-Ion analysis results were incorporated. It also allowed us to compare CGRs on a like-for-like basis between wells since the separator conditions of the minilab were held constant. IsoSplit wellhead samples and recombined separator samples proved to be the most effective way of capturing representative samples when compared with the compositional results of samples captured using alternative methods.

### Contact

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